INSTALLATION CERTIFICATE

The undersigned qualified installer attests to have personally fitted the here described detector on the following vehicle, according to the manufacturer's instructions.

By:

Sold on : .....

Type of device : ☐ **911W**

Vehicle : .....

GEMINI Technologies S.p.A.
Via Luigi Galvani 12 - 21020 Bodio Lomnago (VA) - Italia
Tel. +39 0332 943211 - Fax +39 0332 948080
www.gemini-alarm.com

GEMINI® ALARM SYSTEMS

Narcotic Gas and Explosive Gas Wireless Detector 911W

INSTALLATION AND USE MANUAL

UK

CERMET SISTEMA DI GESTIONE CERTIFICATO Reg. n.532-A

CE

For all EU Countries

AC 2783UK Rev. 00 - 12/09

UK

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1.0 - INTRODUCTORY NOTE

Dear Customer,
Thank you for purchasing a Gemini product.
The present manual has been written to help you understand and use the narcotic and LPG wireless detector 911W, specifically designed for recreational vehicles.
Read the supplied instructions thoroughly and keep them handy.

USER MANUAL

Should gas be sprayed into your vehicle, the 911W sensor is able to detect it and set off an alarm in a few seconds, long before the gas can have any effect on the occupants.
The loud siren will also discourage anyone trying to break in your motorhome.

N.B. In compliance with European standard En50194, the detector can signal the presence of explosive gas (LP), when its concentration is higher than 10% of the LEL (Lower Explosive Limit, the minimum concentration which can cause an explosion).

2.0 - OPERATION DESCRIPTION

We recommend operating the detector **only when the vehicle is parked at bedtime**.
If the detector is switched on uselessly (ex. While driving, when the vehicle is stowed away, etc.), the detecting probe may exhaust.

2.1 - STARTING AND WARMING UP

When power is applied to the detector, it will go through a warm-up period and will be inhibited for at least 3 minutes; during this so-called “warm-up” phase, the yellow LED will blink.
This phase is necessary to allow the sensible element to warm-up and stabilize itself in order to ensure proper operation conditions.
After this time delay, the yellow LED turns off and the detector is ready to work.

The 911W detector does not detect Carbon Monoxide (CO).

3.0 - ALARM SIGNALS

3.1 - NARCOTIC GAS

The detector continuously monitors the narcotic gas concentration level in the cabin by carrying out calculations to self-adapt to the different air quality conditions (use in urban areas is different from use in country places).
If a sudden increase in the concentration level is detected due to narcotic gases being sprayed in the vehicle, the detector immediately activates the built-in radio transmitter which actuates the siren of the Gemini alarm system (863MH, tracker, etc.).
The alarm state remains ON until the conditions which have triggered it are present.
To deactivate the alarm, simply disconnect it.

3.2 - EXPLOSIVE GAS LPG

The detector continously monitors the LPG concentration level in the cabin; if its concentration exceeds 10% of the L.E.L. (Lower Explosive Limit), the detector immediately activates the built-in radio transmitter which actuates the siren of the Gemini alarm system (863MH, tracker, etc.).
The alarm state stays on until the conditions which have generated it are present.

Important Note: for LPG detection, the sensor must be installed according to the installation instructions (see chap. 13.0).

4.0 - POWER SUPPLY

The detector can operate both at 12V or 24V, by setting the voltage switch SI1.

By default, the detector is set at 12Volt.

To select 24V, turn the detector off, open the casing (by pressing both sides lightly) to access the electronic card and set the SL1 switch to the desired voltage.

5.0 - SELF-DIAGNOSIS

The detector is provided with an acurate and reliable self-diagnosis system which continuously checks its performance and efficiency; any failure or the exhaustion of the probe, after a life cycle of more than 11,000hrs, is signaled by the yellow LED turning ON and by a warning alert signal.

When the probe is exhausted, contact an authorized dealer for replacement or reconditionning of the detector.

6.0 - SENSITIVITY LEVEL SELECTION

By default, the detector is set to “normal” sensitivity; in case of particular environmental conditions, the sensitivity can be set to “low” by opening or interrupting jumper P1.

Jumper P1: closed = normal sensitivity
Jumper P1: opened = low sensitivity

Changing the sensitivity setting will not modify the alarm threshold level for explosive gas LPG, 10% of the LEL.

7.0 - IMPORTANT CAUTIONS

- Use only a damp cloth to clean the detector; do not use thinners (alcohol, detergents, etc.) which could irreparably damage the detector.
- Alcohol based cleaning agents, perfumes, deodorants, varnish thinner fumes, insecticides and other sprays can interfere with the correct operation of the sensor and create improper alarms and/or alter the device sensitivity.
- Silicone vapors in the cabin can deteriorate the detector sensing element.

8.0 - SIGNAL SYMBOLS

SYMBOL	COLOR	DESCRIPTION
	Green	Supply voltage present
	Yellow	Signaling of specific functional conditions (see table 8.1)
	Red	Power ON - alarm ON

8.1 - YELLOW LED SIGNAL INDICATIONS

YELLOW LED	ACOUSTIC ALERT	DETECTOR CONDITION
Consecutive flashings	None	Starting and warming up
On steady	Short beep every 5 minutes	Out of order due to exhaustion of probe (after 11,000 working hrs)
On steady	None	Faulty

9.0 - WARRANTY CONDITIONS

This product is guaranteed to be free from defects in workmanship for a period of 24 months from the date of installation reported on the present warranty, in compliance with the1999/44/CE Warranty Directive (L.D. N° 24 - 02/02/2002).
Please fill-in entirely the guarantee certificate included in this manual and DO NOT REMOVE the guarantee label affixed to the device.
The warranty will become void if labels are missing or torn, if the installation certificate is not fully compiled or if the enclosed sale document is missing.
The warranty is valid exclusively at authorized Gemini Technologies centers.
The manufacturer declines any responsability for eventual malfunctions of the detector or any damage to the vehicle electrical system due to improper installation, use or tampering.

INSTALLER MANUAL

10.0 - INSTALLATION

The wireless detector 911W is intended for a permanent installation.
The device must be positioned at about 20-40 cm from the vehicle cabin floor to be protected.
The detector must be installed at least 1-1,5m away from any air supply register; if there is an air intake vent, install the detector near it.

10.1 - FISSAGGIO DEL RIVELATORE

- Remove the detector cover by prying lightly with a screwdriver inserted in the release slot on the right side of the casing.
- The two screw holes (FF) can be used to mount the detector to a wall or onto a base (fig.1); the electronic card must first be removed by unscrewing the screw on the bottom right corner. (see par.12).

10.2 - ELECTRICAL CONNECTIONS

- The pre-drilled holes (FC) are used to run the power wiring (see par.10.3).
- Connect the wires that supply 12 or 24V to the terminal block M2 (see par. 12); depress the supply terminal block to introduce the cables which must have a section comprised between 0,5 and 1,5 mm².
- Connect the wires that supply 12 or 24V to the terminal block M2 (see chap. 12); the supply terminal block must be depressed to introduce the cables which must have a section comprised between 0,5 and 1,5 mm².

10.3 - MOUNTING DIAGRAM

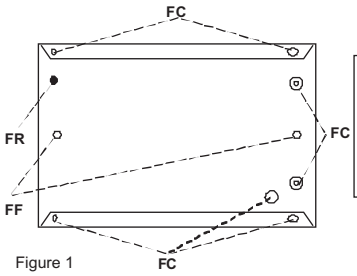


Figure 1

FF - Pre-drilled mounting holes, use the ones to the far ends.
FC - Pre-drilled holes to run the cables, use the ones on the left for the power cable.
FR - Power supply cable holder.

11.0 - SELF-LEARNING PROCEDURE

Before starting the learning procedure of the sensor identification code, activate the learning procedure requested by the GEMINI alarm system (refer to the alarm instruction manual).
Once activated, proceed as follows:

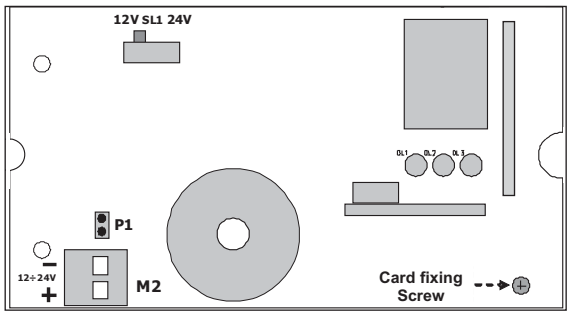
- Use an unlit butane lighter to spray a small quantity of gas near the "FIGARO" sensor located on the PCB base near the three LEDs.
- Make sure that, when the alarm signals are triggered (the red LED DL-2 turns ON and the buzzer sounds), the transmitter transmits for about 2 sec. (the red LED on the transmitter circuit must turn ON).
- The audio/visual alarm signals will cease as soon as the air clears or when the power is cut-off.
- By triggering the alarm condition, the detector transmits a radio code that will be learned by the GEMINI alarm system (indicated by the appropriate signaling).
- Once the sensor is registered, complete the learning procedure as indicated in the GEMINI alarm instruction manual.

NOTE: the installer sprays gas from a lighter to activate the learning procedure of the radio code but also to make sure that the unit is fully operational.

⚠ Repeated use of a butane lighter to spray gas can alter the detection sensitivity.

NOTE: instead of butane lighters, engine starting aid sprays can be used **by the installer** for testing and learning the detector.

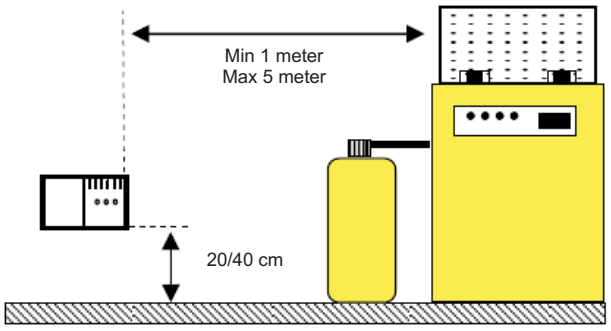
12.0 - CIRCUIT DIAGRAM



M2 - Push-button type terminal block for 12V or 24V.
SI1 - Voltage switch 12 or 24V.
P1 - Sensitivity level selector.

13.0 - CORRECT POSITION FOR LPG DETECTION

The detector must be installed at about 20-40cm from the floor as illustrated here below.



14.0 - TECHNICAL SPECIFICATIONS

Power supply selectable via the SL1 switch	**12Vcc (10 to 14Vcc) 24Vcc (20 to 28Vcc)**
Maximum absorption	**100mA**
Alarm sound pressure level	**90dB at 30 cm**
Working temperature	**Da +5°C a +45°C**
Dimensions	**117 x 68 x 35 mm**
Protection level	**Ip40**
Plastic casing and inflammability class	**PC - Polycarbonate V2 - GW 750**
Approximate weight	**200gr**

15.0 - WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT DIRECTIVE (WEEE)

In the European Union, this label indicates that, this product, must not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling (Directives 2002/95/CE, 2002/96/CE and 2003/108/CE).
For information on how to recycle this product in your country visit: www.eur-lex.europa.eu.

APPROPRIATE CONTAINERS ONLY